

CLAIMS

1. An alloyed steel powder for metal injection molding with improved degree of sintering, consisting as mass percentages of 0.1 to 1.8% C, 0.3 to 1.2% Si, 0.1 to 0.5% Mn, 11.0 to 18.0% Cr, 2.0 to 5.0% Nb, and a remainder Fe and unavoidable impurities.

2. An alloyed steel powder for metal injection molding with improved degree of sintering, consisting as mass percentages of 0.1 to 1.8% C, 0.3 to 1.2% Si, 0.1 to 0.5% Mn, 11.0 to 18.0% Cr, 5.0% or less of at least one of Mo, V and W, 2.0 to 5.0% Nb, and a remainder Fe and unavoidable impurities.

3. An alloyed steel powder for metal injection molding with improved degree of sintering according to Claim 2, wherein the at least one of Mo, V and W is 0.3 to 1.6%.

4. An alloyed steel sintered body for metal injection molding with improved degree of sintering, consisting as mass percentages of 0.1 to 1.7% C, 0.3 to 1.2% Si, 0.1 to 0.5% Mn, 11.0 to 18.0% Cr, 2.0 to 5.0% Nb, and a remainder Fe and unavoidable impurities.

5. An alloyed steel sintered body for metal injection molding with improved degree of sintering, consisting as mass percentages of 0.1 to 1.7% C, 0.3 to 1.2% Si, 0.1 to 0.5% Mn, 11.0 to 18.0% Cr, 5.0% or less of at least one of Mo, V and W, 2.0 to 5.0% Nb, and a remainder Fe and unavoidable impurities.

6. An alloyed steel sintered body for metal injection molding with improved degree of sintering according to Claim 5, wherein the at least one of Mo, V and W is 0.3 to 1.6%.